

A Record of
Continuous News Service
For 48 Years



Official
Undergraduate News Organ
of M. I. T.

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Price Five Cents

HOCKEY TEAM DOWNS B. U.

ENGINEER FIVE DEFEATS NEWPORT NAVAL TEAM BY THE SCORE OF 51-20

GAME MARKS THIRD STRAIGHT VICTORY FOR M. I. T. CAGERS

Harrison and Nee High Scorers
Lead Team to Victory
In Hangar Gym

MANY FOULS ARE CALLED

Still undefeated, the Engineer quintet won its third game this season by the overwhelming margin of 51 to 20 against Newport Naval Academy in the Hangar Gym Saturday night. The Cardinal and Gray five, although they lacked the accurate passing and shooting under the basket, completely outclassed their rivals, who had considerable difficulty in making any shots against Technology's strong defense. The low score of the Newport men is also due to their inaccurate shooting. Nee tied Harrison for the high point position with five baskets each from the floor, although Nee dropped in five fouls for the Engineers.

Engineers Take Lead

Both teams started a little raggedly, the M. I. T. men keeping the ball well in Newport territory and piling up a large score before the sailors got under way. Nelson played an outstanding game the first half at guard, while Nee, who later ran up a large lead for his team, was missing, most of his tries for the basket during this period.

Many fouls were called during the course of the game and neither team seemed to be able to get away to a great spurt. At the end of the first period the score was 22 to 6, Technology having made no substitutions, while Newport was credited with 4.

Second Period

Technology started the first team in the second period, the sailors making one change. Both teams seemed to have difficulty getting started, and after several minutes of play in which the

(Continued on Page 3)

Track Team Opens Season on Boards With Eight Events

Herbert Wins Six-Lap Half Mile Race, Starting From Scratch

Coaches Hedlund and Bowie of the track team opened the season on the board track Saturday afternoon with a handicap meet of eight events. A very satisfactory number of men took part in the meet, and they showed form and ability that is rare for the early part of the season. The outstanding race of the afternoon was the six-lap half-mile, in which "Yicker" Herbert and Bob Leadbetter started from scratch and overtook a large field with liberal handicaps. At the finish Herbert was in the lead by about a foot, having run the distance in the fast time of 2 minutes, 8 seconds.

First Race

In the four-lap event, Jewett lost out to Seaver by a margin of inches in 1 minute, 19 seconds. Jewett started from scratch, while the winner had an advantage of 15 yards at the gun. Two races were run in this event and the winners judged by their times. In the two-lap event three races were run in a similar way. Muliken, a scratch man, ran a fine race and managed to pass a large field to make the best time of 34 seconds flat.

Freshman Wins Dash

The 45-yard dash was won in the final heat by Uhro Soisalo, a member

(Continued on Page 3)

Athletic Budgets Receive Increase For Coming Year

Students Pay \$17,338.44 to Carry on Sports at The Institute

Showing an increase of more than \$2,000 over last year's budget the figures compiled by the Budget Committee, which is headed by Edwin R. Rowzee '30 state that this year the total expenditure for sports will be \$17,338.44 compared with the sum of \$14,967.57 which was spent last year.

Mr. Horace S. Ford, of the corporation, and Mr. Harry Worcester, alumnus have approved the budget as representatives of the Advisory Council.

Each year a special fee of ten dollars is paid by each man of the Institute to be used for athletics, class dues, and other assessments. Out of this sum \$5.80 is paid for sports and \$4.40 for class dues.

Of the twenty-two items on the budget, track has the largest sum amounting to \$2,960.54 while crew is second with an expenditure of \$2,332.32. The amount for the former is an increase of over \$500 of the sum granted to track last year. Freshmen Soccer is added to the budget this year with an allotment of \$77.56. There is also a question of including Freshmen Rifle in the budget and it has a tentative sum of \$63.71 granted to this sport. Neither of these two sports were included in the report last year. Cross Country, hockey and Varsity Swimming are the only others ranking above \$1,000.

Even with this large increase over last year the amount is still far below that spent by many liberal arts institutions throughout the country. The complete report of the budget is found in another part of this issue.

A. I. E. E. COMMENCES NEW DINNER SERIES

Students Will Present and Discuss Technical Papers

Celebrating the twenty-seventh anniversary of the flight of man, the Boston Section of the American Society of Mechanical Engineers will visit Technology tomorrow to inspect the aeronautical laboratories.

After supper which will be served at Walker Memorial, there will be four ten minute talks. Professor Charles F. Taylor, head of the department of aeronautical engineering, will talk on "The Airplane Power Plant." Professor Otto C. Koppen, '24, will discuss "Airplane Design." "Experimental Aerodynamics" will be the subject of a talk by Professor Shatswell Ober, '16. "Meteorology" will be discussed by Professor Carl G. Rossby.

At the conclusion of the talks, there will be a tour of the Institute to examine the various wind tunnels, laboratories, and drafting rooms. Undergraduates will act as guides for the party.

EXPLOSIVE EXPERT TO ADDRESS C. E. S.

Use of high explosives in hydroelectric projects in the Great Smoky Mountains in North Carolina will be the topic of the Civil Engineering Society Supper meeting this evening at 6:15 o'clock in Walker. Mr. Abel Stevens, a noted explosives engineer, will give a talk on the use of explosives and there will be a movie of the work. The speaker was with the government during the war in keeping harbors and rivers open. He has done a considerable work in removing rock from difficult places, such as subway and building excavations.

SENIOR SWIMMERS WIN BY INCHES AT INTERCLASS MEET

Lead Freshmen by 3 Points In Final Scoring of Opening Meet

SOPHOMORES TAKE RELAY

Torchio and May are Double Winners in Swimming Events

In the closely contested inter-class swimming meet held at the University Club pool Friday evening the Senior tanksters barely emerged victorious. The highly spirited freshmen, losing first place by the small margin of three points, showed excellent form, and their fine performance was the culmination of the intensive coaching of Dean and Brown in the comparatively short time since the first practice session. Practically all the times recorded for the various events were most satisfactory, considering that the season is still young.

Close Sprint

Captain Torchio, capturing the 50-yard sprint, was closely followed by Teague who scarcely touched out Baker for second place. In the 100-yard swim Torchio again was triumphant, covering the distance in the fast time of 59 4/5 seconds, Lutz taking second place. Baker, swimming neck and neck with Willman, barely managed.

(Continued on Page 3)

1930 DANCE OPENS DRIVE FOR USE OF WALKER MEMORIAL

Lamson's Harvardians Furnish Music for Dancing from 9 Until 1 O'clock

225 COUPLES PRESENT

Good music, unusual decorations, and a lively crowd marked the annual Senior Dance that was held last Friday evening in the Main Hall of Walker Memorial. Dancing began at 9 and continued until 1 o'clock, the music being furnished by Roy Lamson's Harvardians. Approximately 225 couples were present at the affair.

Decorations consisted chiefly of the banners of all classes since 1869 hung around the balcony, the new drapes that have been hung in the four center arches, and palms distributed in various places throughout the hall. The outstanding feature was perhaps the many unusual lighting effects that were produced.

This dance was held in Walker Memorial this year as part of the "Use Walker" campaign. Formerly, the Senior dances have been held in the Commons Room of Rogers. Due to the fact that this dance was more or less of a forerunner, the degree of its success was of great interest to those advocating the use of Walker Memorial as the scene of student activities. Since many expressed the opinion that the Main Hall had been an ideal place for the dance, the Walker Memorial Committee feels certain that many of prejudices against Walker Memorial have been removed. Chaperones for the affair were President Samuel W. Stratton, Dean Harold E. Lobdell, '17, Professor and Mrs. James R. Jack, Mrs. Leonard M. Passano, and Mr. Morris A. Parris. The committee in charge consisted of Robert W. Reynolds, John F. Bennett, Theodore A. Riehl, and Juel H. Lensch.

Final Examination List Announced in Next Issue

In order to forewarn the erring student of the proximity of his fate, THE TECH takes pleasure in announcing that it will publish the final examination schedule in the next issue on Wednesday.

BEAVERS SURPRISE FANS BY DEFEATING TERRIER TEAM IN FAST GAME, 3-1

New Columns In T. E. N. Feature December Issue

Interesting Articles Included In Latest Number Put On Sale Today

With its usual complement of well written and interesting articles by prominent professors and graduates of the Institute, the December issue of The Tech Engineering News goes on sale today. More space given over to Editorials, the beginning of a series of brief biographical sketches of faculty members, and a column to be known as "Among our Authors" are innovations inaugurated in this number.

With the intention of showing the students of the Institute one more position open to graduate engineers, Mr. Harry D. Peck '13, has written an article on "Opportunities in Patent Law" describing this field of work from the standpoint of a technical man. Professor Donald C. Stockbarger '19, is the author of "Glass that Glows in the Dark," a description of some glasses that may be used to admit the healthful ultra-violet rays of sunlight.

In an article that should be of interest to all students and men connected with the field of engineering, Professor Frederick K. Morris discusses the things about the earth which an engineer should know, and matters that he should leave to the geologist. The use of alignment charts or monographs in solving engineering problems is the subject treated by Raymond D. Douglas '24, of the Mathematics Department. "Nitro cellulose—A Product with Many Uses" by Professor Henry W. Underwood Jr. completes the feature articles of the issue.

COLLEGE ENROLLMENT STEADILY INCREASES

138 Institutions Show Gains in Attendance This Year

In an article in the current issue of School and Society, Dean Raymond Walters of Swarthmore College states that more colleges and universities report gains in attendance and fewer report losses this year than last year according to statistics gathered by him. An upward trend in the enrollment of both small and large colleges is indicated.

Dean Walters' summary of the figures from 226 institutions shows that of the larger colleges, those having from 1000 to 3000 students, 44 reported gains and 21 losses. Of universities of over 3000 enrollment 31 report gains and 11 losses of students. The total registration of full-time students in the 226 colleges and universities is 442,493, an increase of one and one-half percent over last year. If part-time and summer session students are included the gain is two percent.

In numerical rank the report shows that the University of California continues to lead in full-time students and Columbia University in grand-total attendance. California's enrollment including both Berkeley and Los Angeles divisions is 17,242 students.

TECHNOLOGY REVIEW ON SALE WEDNESDAY

Technology Review for December will be on sale Wednesday and features a discussion by Dr. A. D. Little '35 which is in answer to Stuart Chase's article in the November issue on "Research and Labor". The subjects of other main articles are "Terraces and Towers", "Science and the Front Page", and "The Trend toward Railroad Electrification". The last issue of the Review had the largest circulation of any issue of the magazine.

VARSITY SCORES TWICE IN FINAL PERIOD ATTACKS

Captain Cullinan Makes Last Goal in Closing Few Fast Seconds

RILEY STARS AT GOAL

In a thrilling game packed with surprises and disappointments, one of the best Technology hockey teams in recent years defeated Boston University at the Arena Friday night by a score of 3-1 in the season's opener. The result was an upset, since B. U. was generally conceded all prospects of winning.

After seven minutes of strenuous play in the first period Peterson scored the initial goal taking a fast pass from Hall, the left wing, and flipping the puck past the goalie. The Terriers evened the count in the second period but were downed by two Beaver goals in the third and final period.

B. U. Was Favored

With 6 weeks of practise and 2 games behind them, the Terriers had everything in their favor even though the 2 games had been lost to the University Club and Yale. A combination of fine defensive stickwork and unusually efficient handling of shots by Riley, the goalie, turned back all frantic attempts of the B. U. forwards to score.

Captain Cullinan, at right wing, led his Cardinal and Gray team with ability and finished off the game with a short, clever shot that slipped by the goalie in the last minute of play—a perfect finish. Hall, at left wing, played a fine game carrying the puck down the ice and scoring the winning goal in the second period.

A great factor in the victory was the nonchalant ease with which Riley smothered the shots at his net. A quick flick of the wrist and many a rally was stopped. Riley is a smooth worker and deserves all the credit that

(Continued on Page 3)

Athletic Teams Show Prowess in Annual Display

Coon Fails in Attempt to Break Freshman High Jump Record

Under the direction of the M. I. T. A. A., a very successful exhibition was held Friday night in the Walker Gym by representatives of six of Technology's winter athletic teams. The teams represented were basketball, fencing, track, boxing, wrestling, and gym. The basketball game between the jayvees and the frosh five was slightly one-sided, the upperclassmen defeating the freshmen 13 to 6 in a spirited twenty-minute contest.

The game was marked by much team play on both sides, although the freshmen did not have the experience and skill which their opponents had.

Following the basketball game, the track team members gave an exhibition of high-jumping. Zigler, and Benjamin were from the Varsity, and Coon, Butkus, and Sullivan came from the freshmen team. Butkus was the first to go, having cleared 5 feet 6 inches but falling short of 5 feet 8 inches. Zigler, Benjamin, and Sullivan succeeded in jumping 5 feet 10 inches but were unable to get over the 6 foot mark. Coon, a promising freshman jumper, attempted to break the freshman high jump record of five feet 11 1/2 inches but was unsuccessful, although previously he has jumped six feet.

After the high-jumpers left the floor, Deake and Kennedy of the fencing team gave an exhibition. The match was rather slow, and Kennedy suc-

(Continued on Page 4)

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PROVED WORTH

A TRANSFORMED Walker Memorial greeted those who were fortunate enough to attend the Senior Dance last Friday night. The lounges and cloak rooms even took on the air of an exclusive club, while the Main Hall bore no resemblance whatever to the commons room familiar to week-day Technology. Tasteful hangings, the soft glow from flood-lights, a highly polished floor combined to produce an effect which pleased everyone. There was not the slightest objectionable reminder that the room had had the usual large number of dinner patrons but a few hours before.

No one can say that the "Use Walker" campaign has not opened auspiciously. Since attendance, music, decorations, conduct of guests and an intangible quality which one may call atmosphere are the criteria by which a party is judged, the formal for the Class of 1930 was without doubt an outstanding success. It lacked in none of the characteristics named, and everyone enjoyed himself. Those who came expecting little were pleasantly surprised; those whose hopes were higher were well satisfied.

After the affair Friday evening, the prospects look bright indeed for the Junior Promenade. The Juniors know now that they may count on whole-hearted support from the students. From experience gained at the Senior party the Prom Committee should be able to make whatever changes seem necessary in their plans.

As one finds workaday existence drab after losing himself among the treasures of an art gallery, so does one find it difficult to accept the Walker Memorial whose beauty is necessarily desecrated by the dining service. Now that Technology students know what an attractive ball room the hall is, nothing should be allowed to prevent its exclusive use as a lounge and social center. We see too little beauty at the Institute. The present use of the Main Hall as a commons room mars its natural air. Students then must identify themselves unanimously with the movement to remodel Walker and maintain the Main Hall as a students' room.

As an indication of a trend in Technology undergraduates, the Seniors' success with a dance at Walker is most gratifying. It proves first that the building has great possibilities. The students have shown their willingness to cooperate to the utmost with whatever action may be taken to improve facilities. It is conclusive evidence of what the faculty asked—"Will the students use Walker when it is rebuilt?" The answer is emphatically—"Yes!"

DIRECTION FINDERS

IN the lecture of this afternoon by Professor Schell, the second of the series of four lectures for the freshmen, a subject of unusual significance is to be discussed. To a group of men studying for the engineering profession the question of the desirability of a narrowed educational program presents itself. Many graduates of engineering schools assume positions after graduation in the executive and administrative departments of industry. The question involved is that of planning the curriculum so that the student will be fitted for the type of task he is to undertake.

Very few graduates from Technology enter the field of straight engineering. Industry is hardly enough specialized for that. As a result the engineer finds himself constrained to devote extra energy toward direction of other men, summoning his resourcefulness and his executive ability.

President Stratton has requested that all freshmen attend this lecture, in the feeling that such a discussion will arouse in the mind of the student a serious inquiry as to the purpose of his studies at the Institute. Inaugurated this year by the President himself, this series of lectures presents what corresponds to the "Orientation Program" of other colleges for their freshmen. As such, it is well worth while, and no freshman should fail to attend.

In consideration of the numerous activities which hold forth other attractions to the students during the afternoon, this series has been so planned this year that the lectures do not interfere with sports programs, and the number of lectures has been reduced to a minimum, at the same time with consideration for the maximum interest.

AWAY FROM THE GRIND

ALPHA TAU OMEGA

About seventy-five couples attended a closed Christmas Dance at the Alpha Tau Omega House Friday evening. Ruby Newman's orchestra furnished the music for the dancers. Mr. and Mrs. Alexander Macomber '07 were the chaperones. Dave Wells provided the decorations consisting of large paintings of girls which were hung on the walls.

DELTA TAU DELTA

Farmer Putnam's Barn near Danvers was the scene of a dance given Friday night by Delta Tau Delta. About one hundred couples danced to the music of Ross Pearly's orchestra. Mr. and Mrs. George Wendell were the chaperones at this unusual affair.

LAMBDA CHI ALPHA

In conjunction with the other two Boston chapters of Lambda Chi Alpha, Harvard and Boston University, a dance was held at the Longwood Cricket Club last Friday evening. Roy Lamson's Harvardians provided the music for about one hundred couples. Preceding the dance a dinner was given at the chapter house for about fifteen couples.

THETA CHI

Theta Chi held its annual Christmas dance cabaret style Saturday night. The Harvardians furnished the music for about one hundred couples. At twelve Santa Claus came in and distributed appropriate gifts to all the brothers. While supper was being served, Solly Field entertained with his piano accordion.

THETA DELTA CHI

Theta Delta Chi entertained about one hundred and thirty couples at a Poverty Dance held Friday night. The dance was held in the "Cambridge Alms House" where they had a similar party last year.

THETA XI

Modernistic decorations in black and white furnished the setting for an open dance at the Theta Xi House Friday night. The Techonians provided the music for about ninety couples. Mr. and Mrs. Cannon were the chaperones.

SIGMA ALPHA MU

Five men were initiated into Sigma Alpha Mu at a formal banquet held Saturday night. They are: Samuel Baum '33, Henry Grinsfelder '31, Malvin J. Mayer '33, Norman Pressler '33, and Robert B. Ripin '33.

We read in the Purdue "Exponent": "E. A. Garrett, freshman engineering student at the University of Missouri, starts the ball of college suicides rolling by using a pair of scissors the wrong way. For a while it looked as if this epidemic had died out completely. It should. There is no reason for a young man or woman to end his life because of poor grades. Try the other means of bettering the situation. Stay home once in a while and look at a book".

At the University of Bombay cheating is considered a heinous crime—second only to refusing to marry at a father's command or eating the flesh of the sacred cow.

As We See the Movies

THE METROPOLITAN

"The Marriage Playground" Paramount's all-talking picture showing at the Metropolitan this week, has for its main theme a very widely discussed subject, divorces. More often than otherwise the moving pictures are apt to look upon divorce as rather a joke. In this picture, however, another aspect is chosen—that of what happens when the parents can not make up their minds whether to live together or not.

Mary Brian and Frederic March head the list of characters whose acting is in all ways excellent. The story is a moving adaptation of Edith Wharton's novel, "The Children", and describes the half comic, half serious adventures of six children belonging more or less to the same parents, but left almost entirely in charge of an older sister, only 17 herself. The desperate loyalty of these children, based on their constant fear of being separated and dragged away by the ill-assorted grown-ups, is the moving force behind the picture.

Thanks to the group of most amusing and completely natural youngsters, aided very greatly by the sincere performance of Mary Brian, the purpose of the picture is successfully accomplished. The vagaries of the wandering parents, never able to stop flirting or quarreling, utterly selfish although protesting the utmost devotion, are entertaining on the surface. The film is unusually clever and amusing, but the underlying seriousness of it is always visible.

The love episode occurs in the picture when Judith, the older sister, falls in love with Martin Boyne, played by Frederic March. He is a friend of her father's and tries to straighten out the family mess. While doing so, the discovery by Judith that he loves another girl is unutterably tragic. All her life she has been giving and giving without the slightest hope of any return and when she barely glimpses happiness, it is snatched away. Fortunately there is a happy ending when Martin discovers who it is that he really loves.

The stage presentation this week, "White Caps" is particularly pleasing. It is composed of sailors, ship officers and a bevy of girls. The lively music, the peppiness of the dancers and the gorgeousness of the scenes blend together to make it a good musical comedy. The Metropolitan orchestra, led by Gabriel Hines, presented "Rhapsody in Blue", a miniature musical production staged in a novel manner. In this presentation George Harris, Sid Reinherz and Alleyne Reese, the popular lobby entertainers made their stage debut by singing and playing the popular dance number, "Ain't misbehavin'".

One of the sororities at the University of Indiana decided to refrain from the use of cosmetics until Indiana wins a game, while another group lent their support to the No-Shave Club by refusing dates with beardless campus sheiks.

Charging that 34 college students at Ohio University were ineligible to vote at the Municipal election here, when Robert S. Wood, former university football captain and coach, was elected mayor by six votes, former Mayor E. C. Woodworth declares he will ask that their votes be thrown out.

The expulsion of six students from Drake University as the result of the campus warfare which preceded the annual game with Iowa State University had an unusual aftermath. Indignant because the dean of men had refused to reinstate the expelled men, a dozen or more students subjected the dean's house to a barrage of rotten eggs at one o'clock in the morning, and disappeared before they could be identified. Shortly after, an effigy of the dean was hung from the front of the Administration building.

Honor is the key word at the University of Virginia where a cooperative store is operated with no clerks in charge, students serving themselves, ringing up their purchases and making their own change. So supreme is the spirit of honor on the campus that there has been only one violation of the rule since the inauguration of the system several years ago.

Three of fifteen students at a medium school in Milwaukee have gone to court to receive return of their tuition, claiming that the affair was a big fake. One of the students touched a ghost, and got a handful of these cloth.

Coach Billy Laval of South Carolina, determine to break his halibacks of the costly habit of fumbling, prescribed that each one was to carry a football with him during the day, to meals, to classes, and to bed at night.

A beard-growing contest was recently held at the University of Illinois with a prize of 500 dollars offered by a prominent razor manufacturer.



Jump right in—the social whirl has no terrors for the properly attired whirler.

More specifically, our formal clothing never fears comparison with the demands of correct social usage; the fabrics have the necessary luxury, the fit and styles are impeccable and superior tailoring keeps them so.

Dinner coat and trousers, \$50 up.

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RILEY STARS AT GOAL AS VARSITY SIX WINS 3 TO 1

Peterson, Hall, and Cullinan Make Scores for Beavers In First Game

(Continued from page 1) can be given him for his remarkable playing. He will without a doubt prove a formidable man for Technology's future opponents. The first period began with quite a bit of fast play around the B. U. goal and several long shots by Cullinan. Lombard, the Terrier threat, was in great form but could not penetrate the Beaver defense. Several penalties were inflicted on both teams and near the close of the period the penalty box was occupied by three players.

Playing Slackens Both teams appeared tired in the second period and B. U. made one great effort to score their lone point. Lombard snapped a pass to Currier who in turn shot the puck through Riley's outstretched arms. The play throughout the 15 minutes seemed rather aimless but was filled with cautious playing by both teams.

The Cardinal and Gray came out fighting in the last period and after 3 minutes Hall and Lucey succeeded in carrying the puck down near their opponents' goal where Hall took a fast pass from Lucey and slipped the puck past the goaltender's shoulder. With a lead of 2-1 in their favor the Engineers played a defensive game for the remainder of the game.

Each man on the Technology team played well, and special credit must be given to Captain Cullinan, Hall, Lucey, Peterson, and Hazeltine. Since it was the first game of the season the men were not in the best of physical condition but will surely overcome this handicap before very long. Coach Stewart is expecting a successful season and his team shows the results of careful and thorough coaching.

Hazeltine and Peterson worked together beautifully, successfully and decisively stopping the majority of the Terrier attacks. Hazeltine proved equally strong on the offense as on the defense by his powerful dashes through the B. U. forward line.

The freshman squad will be called some time this week and all those interested are asked to watch the bulletin board for definite information. Practising will continue through the vacation for both the Varsity and freshmen squads.

WRESTLERS START M. I. T. TOURNAMENT

Eight All-Technology Champs Will Be Chosen in 3-Day Series

As announced in THE TECH three weeks ago the first All-Technology wrestling meet will be held in the Hangar gym on December 17, 18, and 19. This is the first meet of this nature to be held at Technology and Coach Ricks plans on a similar meet every year in the future. An unusually large number of men are scheduled to take part in the matches which are to be held on each of the three nights announced. In all, nearly seventy men are signed up, thus furnishing plenty of competition for the first evening, when all but four men in each class are to be eliminated. On the following night the semifinals are to be held in which two men are to be picked from each class to contest in the finals. A medal will be awarded to the champion in each weight engraved with ALL TECHNOLOGY CHAMPION.

TAU BETA PI TAKES EIGHTEEN NEW MEN

Eighteen new members were initiated on Saturday evening into the Technology chapter of Tau Beta Pi, the national honorary engineering society. The ceremony and the banquet following were held at the Engineers Club.

Professor Harry W. Tyler, as the speaker of the evening gave an informal talk on the movement towards liberalizing the education in colleges both in this country and abroad.

Those initiated were: Benjamin C. Buerk, Leslie W. Engler, Howard S. Gardner, Jr., Wilfred F. Howard, Edward M. Jenkins, Edward K. Kingsley, Perm Limpisvasti, Robert M. Nelson, Richard G. Orleman, Theodore A. Riehl, Rollin L. Rosser, George W. Schaible, Gregory Smith, Parker H. Starratt, William H. Spahr, all of the Class of 1930. The three Juniors initiated were Joseph B. Birdsell, William P. G. Hall, and Richard H. Yates. In addition to these men, Claude E. Stafford was initiated as a charter member of the Tennessee chapter.

THIRD GAME WON BY TECHNOLOGY CAGERS

Will Meet Harvard in Hemenway Gym Next Wednesday

(Continued from page 1) ball went from one end of the floor to the other, Nee sank a foul for the first score in the second half. Rolf, on the sailor five was playing a nice game before the Engineers started their final drive, and scored two baskets for his team on the passing play used several times by the visitors.

Engineers Rally Harrison made the first score for the Technology on a nice one-hand shot several feet in front of the basket. This basket started the drive which netted the team some twenty points. Passing from almost any angle, the basketkeepers completely baffled their opponents and had many clean tries at a score. Harrison, who was playing a hard and fast game stopped many of the counter attacks, several times actually taking the ball away from his opponent. The second half, like the first, was marked with numerous fouls on both sides, resulting in the removal of several players from the game. Technology made its first substitution when Motter was called out on fouls, MacDowell going in at center. Stockwell later went in for Harrison, Johnson going in for Nelson.

Harvard Game Wednesday Wednesday, the cagers will meet Harvard in the biggest game of the season in the Hemenway Gymnasium at 8 o'clock. "Harvard has a fine team this season, and I look forward to a corking good game," said the famous mentor of Technology's basket-keepers to reporters after the Newport game. To win the game against the Crimson team, the cagers will need the backing of every sport follower in the Institute. The dorm cheering section which has followed the team is expected to lead the rooting toward another Technology victory Wednesday night. The backing the team has against the Harvard five will do much in determining the final score, and all men are urged to be present.

The summary:

M. I. T. VARSITY	G.	P.	P.
Harfrison, forward	5	1	11
Nee, forward	5	5	15
Motter, center	3	1	7
Nelson, guard	2	4	8
Lawson, guard	1	1	7
MacDowell, center	1	1	3
Stockwell, forward	0	0	0
Johnson, guard	0	0	0
Total	19	13	51

Newport Naval Academy	G.	P.	P.
Myers, forward	2	0	4
Pilon, forward	2	2	6
Dion, forward	0	0	0
Rolph, forward	2	1	5
Cary, center	1	0	2
Dowling, center	1	0	2
Susinski, guard	0	0	0
Wright, guard	0	1	1
Oreutt, guard	0	0	0
Total	8	4	20

Referee: Kelleher; Umpire: Hoyt.

Georgetown University has a new million-dollar medical-dental school building under construction. When completed it will place Georgetown among the leading medical centers in the United States.

1930 MERMEN WIN INTERCLASS MEET

Freshmen Lose by Failing to Take Relay Race Which Decided Meet

(Continued from page 1) aged to glide in before the latter for third place.

The quarter-mile swim was won by Jarosh, who led Lutz by about forty yards, both mermen maintaining excellent form during the whole of the grueling course. Eddie May carried off the honors in both the 300-yard medley and the 150-yard backstroke. It appeared as though Jarosh would tie with May in the latter swim but in the last three yards May forged ahead and won by a narrow margin.

Freshman Wins Breast-stroke One of the most stirring races of the evening was the 200-yard breast-stroke event won by Flanders, a promising freshman who defeated Birnbaum by a narrow margin. Lykes and Brandli tied for first in the dive with a total of 77.6 points while McMinn took second, with Lynch only 1.3 points behind him. Unfortunately Brandli will be unable to represent Technology this year since he is a college transfer student.

The 200-yard relay upon which the freshmen had depended to clinch the meet, provided not a little excitement to the occasion. Hopes dwindled and advanced alternately from the moment of the lead-off man's plunge up to the anchor-man's finish. The Sophomores finally came in first, followed by the Seniors with the freshmen close behind.

Relay Loses Meet Coaches Dean and Brown both stated that the freshmen certainly would have won, but for the failure of one of their stars to appear. He was scheduled to swim in the relay and would in all probability have gained the extra few inches which would have given the freshmen the meet.

The final scoring was as follows: Seniors—29; freshmen—26; Juniors—22; Sophomores—15.

The Senior class numerals will be engraved on the plaque accompanying the permanent trophy presented by the Brookline Swimming Club in 1923.

Summary 50-yard Freestyle—Won by Torchio, '30; second Teague, '32; third Baker, '33; fourth, Willman, '33. Time—26 4-5 sec. 100-yard Freestyle—Won by Torchio, '30; second, Lutz, '31; third, Baker, '31; fourth, Willman, '32. Time 59 4-5 sec. 440-yard Freestyle—Won by Jarosh, '30; second, Lutz, '31; third Rineheimer, '32; fourth Searies, '31. Time—6 min. Medley (300-yards back, breast, and crawl)—Won by May, '33; second, Appleton, '30; third, Rabonowitz, '33. Time—4m. 38 4-5 sec. 150-yard Backstroke—Won by May, '33; second, Jarosh, '30; third, Levinson, '32; fourth, MacNeil, '33. Time—1 m. 59 sec. 20-yard Breaststroke—Won by Flanders, '33; second, Birnbaum, '30; third Appleton, '31. Time—2 m. 52 3-5 sec. 300-yard relay—Won by Sophomores (Levinson, Rineheimer, Carleton, Teague) Time—1 m. 51 sec. Diving—Brandli '31 and Lykes '31 tied for first, 77.6 points; third, McMinn, '31, 66.5 points; fourth, Lynch, '33, 65.2 points.

TRACK TEAM OPENS SEASON ON BOARDS

(Continued from Page 1) of the freshman squad, running with a one-foot handicap. He showed a great deal of speed in beating out Kinraide, Broder, and Ayers by a very close margin. In the 44-yard low hurdles Flanders won out over Whitworth in 6 seconds flat.

The Summary: 45-yard dash. Won by Soisalo (1 foot) second, Kinraide (1 foot); third, Broder (scratch); fourth, Ayers (scratch); fifth, Shaw (scratch). Time 5 seconds. 45-yard low hurdles. Won by Flanders; second, Whitworth; third, Wall. Time 6 seconds. Six-lap race. Won by Herbert (scratch); second, Leadbetter (scratch); third, Medrano (10 yards); fourth, Clark (15 yards); fifth, Rosas (35 yards). Time 2 minutes, 8 seconds. Four-lap race. Won by Seaver (15 yards); second, Jewett (scratch); third, Wood (8 yards); fourth, Putnam (10 yards); fifth, Hammond (5 yards). Time 1 minute, 19 seconds. Two-lap race. Won by Mulliken (scratch); second, Murphy (15 yards); third, Kinraide (3 yards); fourth, Hughes (5 yards); fifth, Ayers (4 yards). Time 24 seconds. Pole vault. Won by Morse (9 inches); second, Cree (scratch). Height 11 feet, 3 inches. Broad jump. Won by Dworzecki (1' 6"); second, Soisalo (8"); third, Wall (9"); fourth, Kinraide (6"); fifth, Whitworth (scratch). Distance 19 feet 10 inches.

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Your Easy Chair is your Grandstand Winter sports make good reading these days on the sports pages of the New York Herald Tribune. "Why the Herald Tribune?" you ask. Because Grantland Rice, W. O. McGeehan, W. B. Hanna, Harry Cross, Rud Rennie, J. P. Abramson, Richards Vidmer, Fred Hawthorne and Kerr Petrie are a few of the New York Herald Tribune's sports writers. Because these men and their associates write straight from the shoulder—they give you the facts plus the excitement and thrill of the game itself. Because the New York Herald Tribune sports pages are admittedly so thorough, so complete, so full of real sports news that they are used as models by sports editors everywhere. That's why we say, "New York Herald Tribune for sports news!" It's on sale in your community and we'd like to have you try it next Sunday. NEW YORK Herald Tribune

CALENDAR

Monday, December 16
 4:00—M. I. T. Liberal Club Meeting, Room 4-231
 4:00—Class of 1933, Special Lecture, Room 10-250
 6:00—Dinner Meeting of Class of 1900, Walker Memorial
 6:00—A. I. E. E. Dinner Meeting, North Hall, Walker Memorial

Tuesday, December 17

4:00—Free Industrial Movie on "The Voice of Business", Room 10-250
 5:00—M. I. T. A. A. Meeting, West Lounge, Walker Memorial
 6:00—Soccer Team Banquet, Grill Room, Walker Memorial
 7:20—Tech Show Rehearsal, Walker Gym

UNDERGRADUATE

A meeting of the Combined Professional Societies will be held today at 5 P. M., after which the Technique picture will be taken.

ILL IN HOMBERG INFIRMARY

The following men are now in the Homberg Infirmary because of illness:
 Bechle, Charles W. '33
 Foster E., Employee
 Nolph, Jr. James G. '33
 Serrano, Ricardo E. '33
 Walters, David F. Unc.
 At the Homeopathic Hospital:
 Huston, Wilber B. '33

LIBERAL CLUB MEETING

Victor A. Yakhontoff, Russian lecturer will speak this afternoon at 4 o'clock in Room 4-231, on the question of the Manchurian Relations of Russia and China. Students and Faculty members are invited.

Second Varsity Beats Freshmen

Wells, Forest, and Dolloff Lead Gym Team Work on Apparatus

(Continued from Page 1)

ceeded in winning 3 to 2. Shellard then had a duel with Deake, and defeated him 5-4. This match was enlivened by intermittent clashes of steel as their swords met in mid-air. In the first wrestling match of the evening Cooper met Negus, the battle ending in a draw after 5 minutes. In the 145-pound class, Capt. Stone, wrestled Stearns. This match proved interesting to the assembled multitude in that several times the combatants found themselves in such positions that the referee had to untangle them. Kohler met Rabinowitz in the match for unlimited weights. This contest was enlivened by much grunting and snorting, but finally ended in a draw after 5 minutes of tugging and pushing.

Orleman Boxes Fast Bout

Boxing scored the biggest hit of the evening, and the crowd became decidedly enthusiastic over the bout between Rowan and Johnson. The opening bout between Orlemann and Tuthill was fast and showed plenty of action. Neither contestant showed any decided advantage over his opponent, and the match ended in a draw after two rounds. The second bout between Rowan and Johnson proved very successful from the standpoint of amusement furnished to the audience. Neither fighter had much skill, and between the two there was much stumbling and swishing of air. Johnson rushed in several times swinging a haymaker which never found its goal. After the two rounds the match was announced as a draw but Rowan had the decided advantage. The final match on the boxing card was staged by Selig, a freshman, and Asunsolo, another freshman. The contestants called time when they were tired instead of waiting for the timer to announce it. This match was enlivened by the skill of both fighters.

The final event on the evening program was the exhibition of the gym team led by Capt. Wells, Coach Forest, and Assistant Coach Dolloff. The crowd assembled for the occasion was quite amused at Wells' intricate skill whereby he removed his full-dress suit and appeared in his gym outfit, and no sooner than he had left the floor was he back with his full-dress suit immaculately in place and every hair in its assigned position.

The program was opened by Wells, Platt, Getting, and Freeman, performing on the high bar. Getting gave a pretty exhibition of skill on this piece of apparatus, as he also did on the horse. Ashley, Sidar, both of the Varsity, and Wagner, Newkirk, and Capt. Wells, next worked out on the rings. On the horse Knapp, and Getting displayed the various tricks used. The final event was the tumblers. Those taking part in this event were Abbot, Freeman, Farr, Nelson, and Assistant Coach Dolloff. Dolloff demonstrated several remarkable flips which caught the fancy of the audience.

After the last event most of the crowd went downstairs to the Main Dining Hall to attend the dance of the Senior Class.

CHEMICAL SOCIETY

Tuesday, Dec. 17, Free Industrial Movie at 4 P. M. Room 10-250 Topic: "The Voice of Business." The complete story of the manufacture of paper by the Hammermill Paper Co., of Erie, Pa. Everyone invited.

TECH SHOW

Tryouts and the first rehearsal for the Tech Show orchestra will be held Wednesday, December 18th at 5:00 o'clock in the East Lounge of Walker Memorial.

FRESHMAN LECTURE

There will be a special lecture for the freshman class today from 3 to 4 o'clock in Room 10-250. President S. W. Stratton requests that every freshman be present at this lecture.

ENGINEER DEVELOPS NON-ARCING BREAKER

New Type of Circuit Breaker Does Away With Oil

A new type of circuit breaker recently invented by Dr. Joseph Slepian of the Westinghouse Electric Manufacturing Company is said to have solved the problem of arcing. It is known as the "Deion" circuit breaker, and makes use of a method of driving an arc at a speed of 2400 miles an hour by means of a magnetic field.

The best method heretofore known to engineers for extinguishing the arc formed when a heavy current is broken in the ordinary way is by immersing the contacts in oil, which is an excellent insulator. Oil, however, has the disadvantage of inflammability. Dr. Slepian's method is said to eliminate entirely the use of oil. No attempt is made to "quench" the arc, but when the arc is formed, it is driven at a mad pace over a circular track until it dies of exhaustion.

The arc is driven into a series of copper plates where it is broken up into a number of small arcs. The copper plates are circular in shape, and the magnetic field which drives the arcs causes them to follow a circular path around these plates. Thus when an imprisoned arc has made the circuit of the plate 30 or 40 times, it is so completely drained of ions that its life is snuffed out.

ORCHESTRA TRYOUTS FOR SHOW WEDNESDAY

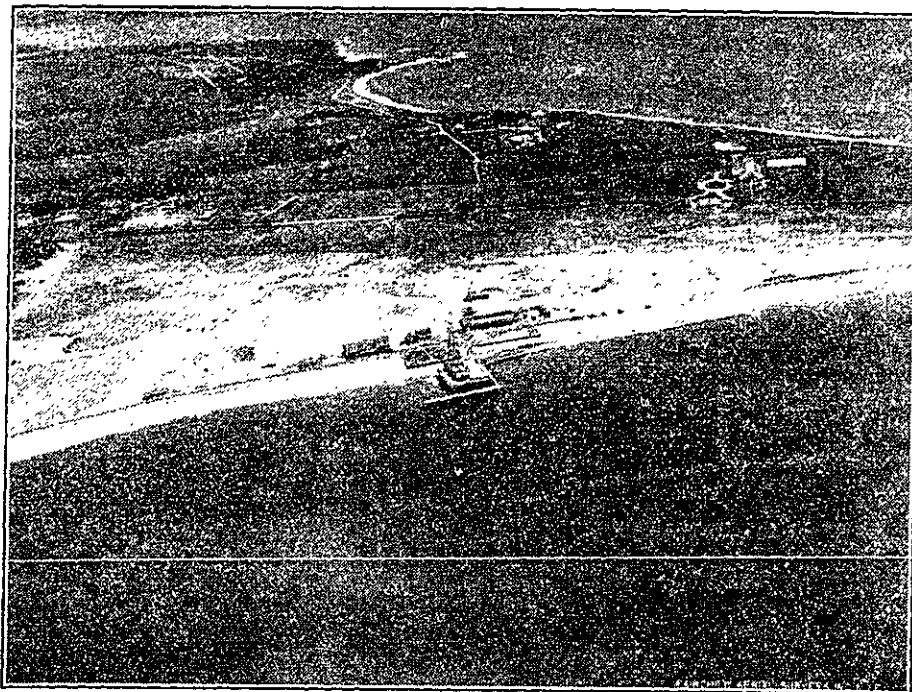
Orchestra tryouts for Tech Show 1930 will be held Wednesday in the East Lounge of Walker at 5:00 o'clock. All men who are interested in playing in the orchestra should be present as regular practice will get underway immediately. Men who can play the violin, cello, trombone, sousaphone, saxophone, drums, and trumpets are needed.

STUDENTS TO HEAR RUSSIAN LECTURER

V. A. Yakhontoff, Russian lecturer and politician, will address the next meeting of the Liberal Club, this afternoon at four o'clock in Room 4-231. His subject will be "The Manchurian Problem."

Mr. Yakhontoff was chosen by Kerensky in 1917 as a member of his cabinet in the government following the Great Russian revolution of 1917. Since the downfall of that government, he has spent a great deal of time in lecturing and in familiarizing people of the outside world with Russia and with Russian problems, and will attempt to explain this afternoon the situation now existing between Russia and China.

Aerial View of Round Hill



Round Hill Is Scene of Intensive Research Work by Technology Men

Three Laboratories Maintained By Institute on Colonel Green's Estate

Five hundred acres of scenically beautiful land, given over in great measure to research in aviation, radio, and meteorology, met the eyes of the 34 students attending the excursion of the Radio Society to Round Hill Saturday. There they learned of the work being carried on under the supervision of Colonel E. H. R. Green, owner of the estate, whose interest in aeronautics, and its associated sciences has resulted in the expenditure of a vast amount of money for equipment and research. The members of the visiting group were shown around the estate by Howard A. Chinn '27, who is in charge of the Technology men stationed there. He explained in detail the working of the airport, which has two runways at right angles to each other, one three quarters of a mile in length and the other about half a mile. The airport possesses the latest type of equipment for lighting, consisting of million candlepower flood lights located at the corners of the field, white lights marking the sides of the runways, and green lights marking the ends.

Standard Frequencies Transmitted

Three laboratories are maintained by the Institute at Round Hill. One, a meteorological station, contains complete equipment for weather forecasting, including wind velocity and direction indicators, temperature and ceiling indicators. The radio laboratories are outfitted for all kinds of experimental work in this science. One of the buildings houses three trans-

mitters, one of which is used for the standard frequency transmissions by which amateur operators calibrate their sending sets and frequency measuring instruments. Various types of oscillators and receiving sets are also in evidence. A completely equipped photographic laboratory is located nearby.

Special interest was excited by the apparatus for determining the relative penetration of various kinds of light through fog. It consists of a steam generating apparatus connected to an enclosed box which is equipped with instruments for measuring the strength of light sent through the artificial fog thus produced.

Stunt flying for the benefit of the visitors was also given a place on the program. The old whaling ship "Charles W. Morgan", now set in concrete and preserved as a memorial, was visited, and Colonel Green's private automobile, equipped with a gas-electric drive, also came in for its share of attention and comment.

That the new football rules, new fumble rule and all, are generally satisfactory, and that there will be very little tampering with the rules for next year, is the opinion of Edward K. Hall, chairman of the National Football Rules Committee. He is certain that the rules against running with a fumbled ball will still be on the books next year.

Students at Bradley College are fined one dollar, if they are late on the day following a vacation period.

At Oberlin there is an annual picnic-hike given the freshmen by members of the junior class.

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